

DERWENT-ACC-NO: 2003-474661

DERWENT-WEEK: 200345

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TITLE: Front light for reflective LCD, has transparent
functional layer with functional surface having
prism
array protection, reflection prevention and
touch panel
functions, laminated on light guide through
silica
aerogel layer

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PRIORITY-DATA: 2001JP-351952 (November 16, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
JP <u>2003149643</u> A	May 21, 2003	JA

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
JP2003149643A	N/A	2001JP-351952
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INT-CL-CURRENT:

TYPE	IPC	DATE
CIPP	G02B6/00	20060101
CIPS	G02F1/1333	20060101
CIPS	G02F1/13357	20060101
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CIPS	G09F9/35	20060101

ABSTRACTED-PUB-NO: JP **2003149643** A

BASIC-ABSTRACT:

NOVELTY - A transparent functional layer (4) with a functional
surface (4a)
having prism array protection function, reflection prevention
function and

touch panel function is laminated on a light guide (1) through a silica aerogel layer (2). The refractive index of the silica aerogel layer is 1.30 or less.

USE - For reflective liquid crystal display (LCD) in information technology equipment.

ADVANTAGE - Realizes effective light guide function without affecting the brightness of the LCD.

DESCRIPTION OF DRAWING(S) - The figure shows the cross-sectional views of the front light.

light guide (1)

prism array (1a)

light guide element (1b)

silica aerogel layer (2)

light source (3)

transparent functional layer (4)

functional surface (4a)

CHOSEN-DRAWING: Dwg.1/5

TITLE-TERMS: FRONT LIGHT REFLECT LCD TRANSPARENT FUNCTION LAYER
SURFACE PRISM

ARRAY PROTECT PREVENT TOUCH PANEL LAMINATE GUIDE THROUGH
SILICA
AEROGEL

DERWENT-CLASS: P81 P85 U14 V07

EPI-CODES: U14-K01A1C; V07-F01A;

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